Title: How Will I Survive?

Brief Overview:

Middle school students need practical application to experience the ups and downs of finance that plays an integral part of our adult lives. Students will use a career connection project to research how much it costs to survive on their own. Students will choose a career, family situation, housing, transportation, and manage finances. The culminating activity involves an oral, visual, and written representation of their life scenario.

Links to NCTM 2000 Standards:

• Mathematics as Problem Solving, Reasoning and Proof, Communication, Connections, and Representation

These five process standards are threads that integrate through the unit, although they may not be specifically addressed in the unit. They emphasize the need to help students develop the processes that are the major means for doing mathematics, thinking about mathematics, understanding mathematics, and communicating mathematics.

Number and Operation

Students will demonstrate their ability to solve problems using arithmetic operations with technology to calculate a weekly/monthly budget. They will choose appropriate operations as in finding the percent of a number and provide written explanations of their results.

• Data Analysis and Statistics

Students will demonstrate their ability to organize and display data. They will analyze and interpret the circle graph.

Measurement

Students will demonstrate their ability to adequately prepare a circle graph of their weekly/monthly budget using a circular protractor.

Grade/Level:

Grades 6-8

Duration/Length:

This unit is designed to take place over 7-10, 45 minute class periods.

Prerequisite Knowledge:

Students should have working knowledge of the following skills:

- Accessing a website from the Internet
- Creating a circle graph
- Solving a basic problem
- Computing whole numbers and decimals
- Finding the percent of a number
- Writing a paragraph using correct grammar and mathematical justifications
- Writing a friendly letter

Student Outcomes:

Students will:

- develop a budget appropriate for a given salary.
- interpret and use formulas.
- maintain a checking account.
- complete worksheets.
- use a calculator effectively.
- evaluate the effectiveness of their budget and assess needs and goals accordingly.

Materials/Resources/Printed Materials:

- Life Scenario cards
- Unexpected Life Circumstances Cards
- Circular protractors
- Checks/Checkbook register

Development/Procedures:

Day 1:

• Each student is to be given a **Life Scenario** card(sample attached). Each card is to be completed by the teacher prior to class and randomly drawn by the student. Because of time restrictions, all students no matter the occupation, will be residing in an apartment. The teacher designates on the Life Scenario card how many rooms(minimal amount) the apartment must contain based on the family situation for each scenario. Occupations come from one of two Internet sites:

www.jobprofiles.com This site provides an extensive listing of occupations and the information needed to complete the project.

//stats.bls.gov/k12/html/tch_mat1.htm This site provides an extensive listing of occupations in the mathematical career field ONLY and the information needed to complete the project.

- Students will complete the Your Occupation and Salary Worksheets in class.
- Students will write a friendly letter for homework.

Day 2:

- The students will be given the rubric (sample attached) used to score the project.
- Students will complete the **Data Sheet**.
- Students will be given their checks and check register. Students have the option of creating their own checkbook cover. **NOTE:** Each student should initially deposit an amount equal to two months pay.
- Unexpected Life Circumstances Cards: Students should randomly draw two money cards(one at the beginning of class and one at the end of class) per class session beginning with this session.

Day 3:

• Students will complete the **Apartment Search** worksheet (sample attached) in class using the Internet site provided at the top of the worksheet.

NOTE: If using the Internet is not feasible for this aspect of the project, have the students use the classified portion of the newspaper or apartment rental guides. (Apartment rental guides are free of charge and found in a variety of businesses.)

• Unexpected Life Circumstances Cards need to be randomly drawn twice during this session.

Day 4:

- Students will complete the **Car Search** worksheet (sample attached) in class using the Internet site provided at the top of the worksheet. **NOTE:** If using the Internet is not feasible for this aspect of the project, have the students use the classified portion of the newspaper.
- Unexpected Life Circumstances Cards need to be randomly drawn twice during this session.

Day 5:

- Students will complete the **Budget Worksheet** and **Show Me the Money**.
- Unexpected Life Circumstances Cards need to be randomly drawn twice during this session.
- Students should begin preparing written report and visual presentations.

Days 6 and 7:

• Each student presents his/her project, while classmates score individual presentations using teacher provided form (sample attached).

Performance Assessment:

Student assessment will be based on the completion of the worksheets and the oral, written and visual presentation.

Extension/Follow Up:

- Students can be given the opportunity to purchase a home instead of renting. A local realtor could speak to the class about the process of purchasing a house. They can fill out paperwork to receive bank loans and credit checks.
- Students can interview someone from the community with their particular occupation.
- Students can research the occupation of their choice and do unit according to this occupation.
- Students can create a portfolio choosing two investment strategies to check everyday either from the newspaper or internet and record their progress. A financial expert could be a guest speaker to help students get started.

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Example of Life Scenario Card

Teacher prepares one for each student in the class (suggested on an index card or thick paper for future use.)

Then each student can pick randomly what their life scenario is.

Circle One	This Is Your Life			
Fill-in if	Marital Status:	Single	Married	
Married -	if married, spou	ıse's salaı	ry:	
Fill-in for Students				
Students	# of Children:			
	# of Cars:			
	Living Situation: # of	Rooms:		

Materials - 2

Name Address	Date	Check #
Pay To The Order Of		\$
		Dollars
Memo	Signature	
Name Address	Date	Check #
Pay To The Order Of		\$
		Dollars
Memo	Signature	
Name	Date	Check #
Address	24.0	CHOSK II
Pay To The Order Of		\$
		Dollars
Memo	Signature	
Name Address	Date	Check #
Pay To The Order Of		\$
		Dollars
Memo	Signature	

Check #	Date	Description of Transaction	Payment Debit	Deposit Credit	Balance

Unexpected Life Circumstances

You lose your cat and place an ad in the newspaper to find her. Cost: \$10.25	You broke your arm and have to pay for the casting. Cost: \$75.00	You win the lottery. Collect: \$500	It is your birthday. Receive \$50 from your grandma.
You buy a satellite for your television. Pay: \$200.28	Take a trip to Hawaii with a friend. Pay: \$600	Your sister repays you money she owed you. Collect: \$100	Donate money to the Retired Firemen/Policemen Foundation. Pay: \$25
Buy some compact discs from Music Co. Pay: \$36.97	Receive your tax return. Collect: \$715.12	Go to the amusement park. Pay: \$37.50	Win a radio contest! Collect: \$106.50
Your boss gives you a bonus for a job well done. Collect: \$102	Library books overdue. Pay: \$5.09	Car trouble. Pay: \$72	Car insurance due. Pay: \$300
You decide to have a garage sale. Collect: \$57.23	Pay for the Sunday newspaper. Pay: \$15	Take a date to the movies and get snacks. Pay: \$22.75	Renter's insurance due. Pay: \$105.36

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Name

Your Occupation

Today you will be researching the occupation given to you and answering the following questions. The more information you find will make your final presentation easier to do. Remember to summarize the information you find and pull out only important topics that relate to the questions.

1.	What is the occupation assigned to you?
	Give a brief description of your occupation, including what type of people you might work with, nature of the work, and working conditions.
3.	What type of education is needed for your occupation?
4.	What are the advantages or rewards of your occupation?
5.	What are the disadvantages or stresses of your occupation?
6.	Give any other details that you would like to include about your occupation here:

Salary Worksheet

This worksheet will help you to calculate your monthly salary for your occupation. Use the research site to find your yearly salary or hourly wage.

If based on 1 year:	1 year =	
To find monthly:	(take 1 year ar	nd divide by # of months in a year)
1 year =	/	(# of months in a year)
Your monthly sal	-	+ spouse's if it
	OR	
If based on \$/hour:	wage per hou	r =
To find monthly: week and then mu	(take wage per	hour and multiply by 40 hours per
\$ * 40 l	hrs. * 4 weeks	
Your monthly sal	ary is:	+ spouse's if it

Homework

Write a friendly letter to a friend you have not seen in a while and give a brief description of your life scenario. It should include your marital status, number of children, number of cars, description of your occupation, and whether or not you have a working spouse.

Data Sheet

The following information will help you to keep your budget.

Marital Status:	Spouse: Y: N:	
our Occupation: Monthly Salary:		
Children:	Spouse's Monthly Salary:	
Cars:		
Βυ	idget Items	
Rent -> (30%) of monthly income	e. Make check payable to: Renter's Company, Inc.	
Taxes -> (25%) of monthly income	e. Make check payable to: Government	
Car -> (10%) of monthly income.	Make check payable to: Car and Automotive Co.	
Gas for Car -> (1) \$85/month	(2) \$170/month. Make check payable to: Gas USA	
Electricity -> (1-3) \$100/month	(4/5) \$150/month. Make check payable to: Lightning Bolt, Inc.	
Water -> (1-3) \$15/month	(4/5) \$25/month. Make check payable to: H2O and Company	
Phone -> (1-3) \$50/month	(4/5) \$70/month. Make check payable to: Alexander Graham Bell	
Cable -> \$40/month Make check p	ayable to: Cable Guys	
Groceries: (1) \$200/n (2) \$300/n (3) \$400/n (4) \$500/n (5) \$600/n	nonth nonth nonth	

How Will I Survive?

Evaluation Sheet for		
Date		
	Possible Points	Earned Points
Meets Deadline	5	
Written Report	20	
Presented in a folder Title Organized chronologically Written report summarizing life so unexpected life circumstances of housing and transportation explanation of success or faile	s, explanation choices,	
Data Sheets/Homework	60	
Accuracy Complete Sentences Grammar, Punctuation Spelling Neatness		
Circle Graph	20	
Title Labels Accuracy Neatness/Easy to Read		
Checks/Checkbook	15	
Meets Monthly Budget	10	
Oral Presentation	20	
Include life scenario, unexpected lecircumstances, explanation of hou and transportation choices, explan of success or failure of monthly be Prepared Audible Creative - visual aids	sing ation	
TOTAL	150	

Name

Car Search

Today you will be researching a car that you like and can afford. If you have been designated on your life scenario card as having 2 cars just double the amount that you spend on one car for your budget sheet.

I. Remember your car payment should only be 10% of your monthly salary.

- II. Use the following directions to research your car:
 - A. Click on Internet access (ask your teacher if unsure).
 - B. Type **www.sunspot.net** into the address after the http://
 - C. Select Classifieds: Automotive
 - D. Select **Automall** then follow directions given on the screen.
 - E. Find a car you like and think you can afford.TRY 1st before asking!!!!!!!!! Raise hand quietly to get help.
 - F. Use the worksheet on the back to determine your monthly car payment. If you can afford one of these payment choices you may go on. If you cannot afford one of these payment choices, then you need to search for a car that is less expensive.

Homework

Using complete sentences and descriptive words, give the details of your car below (include price, monthly payment, color, features, and anything else you would life to tell about). Explain why you chose this particular car.

Buying a Car Using a Loan

Most people do not have enough money to go out and buy a car without using a loan. A loan is where you borrow an amount of money and pay it back a little at a time with a little extra for interest (this is how banks make money on loans). Most car loans are given for 36 months to 60 months.

Using the chart below and the price of the car you have found, determine how long you want to repay the loan and which payment is within your budget. Remember the amount from the front of this worksheet to see what you can afford!!!

	3 Years	4 Years	5 Years
Purchase Price amount from Internet			
Tax 7% take .07 X Purchase Price			
Loan Amount Purchase Price + Tax			
Interest at 9% take .09 X Loan Amount			
Total Cost Add first 4 above			
Number of Months			
Monthly Payment Divide by # of months			

Name _____

Today you will be researching an apartment that by your life scenario card.	at you like, can afford, and follows the restrictions se
I. Remember your rent should only be	30% of your monthly salary.
30% *monthly salary	maximum you can spend on your apartment
II. Use the following directions to resear	arch your apartment:
A. Click on Internet access (as	k your teacher if unsure).
B. Type www.rent.net into the	he address after the http://
C. Search for an apartment in a	iny state/city.
D. Follow directions given on p	page.
Hor	mework
1. State:	City:
2. How much does your apartme	nt cost a month?
3. What made you decide on the linstead of the others you wer	location of this particular apartment

Apartment Search

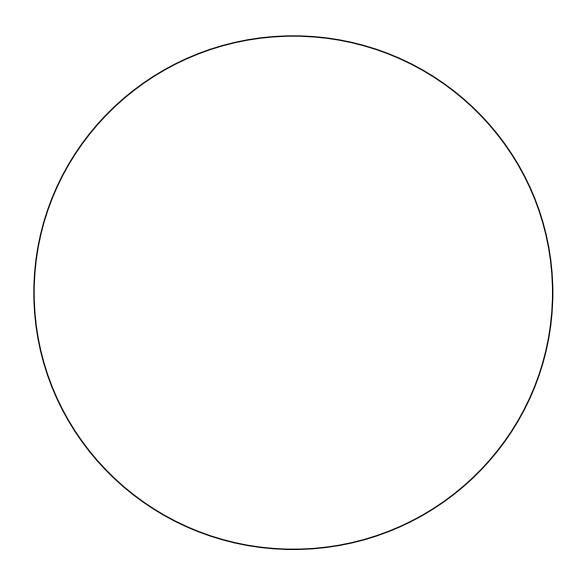
4. What characteristics do you like about this apartment? (Include # of bedrooms, bathrooms, patios, living room, dining room, kitchen, dishwasher, washer and dryer, and anything else included in the information about your apartment. If a floor plan or picture is shown, please draw it.

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Show Me the Money!!!

To visually see just how much money you are spending, use the chart below and appropriate instruments to create a circle graph on the back of the worksheet. Be sure to be neat and put appropriate labels.

	Decimal Part of Salary	Percent	Degree of Central Angle
Rent			
Taxes			
Car			
Gas			
Electric			
Water			
Phone			
Groceries			
Cable			
Other			
TOTAL			



Budget Worksheet Name _____

Your Monthly Salary (include spouse's if applicable)	+
Total (Collect) Unexpected Life Circumstances	+
Rent	-
Taxes	
Car Payment	
Gas for Car	
Electric Bill	
Water Bill	
Phone Bill	
Groceries	
Cable	
Total (Pay) Unexpected Life Circumstances	
Clothing (your choice for amount)	
TOTAL	